

**Graphic Era University – Course Scheme of BTech(CSE) with Specialization in Information Security(in association with IBM)**

**Semester 1**

Subject
Professional Communication
Engineering Physics
Engineering Mathematics-1
Basic Electrical Engineering
Fundamentals of Computers & Introduction of 'C' Programming
Health Leaving & Fitness
Digital Workforce Skills

**Semester 2**

Subject
Advanced Professional Communication
Engineering Chemistry
Engineering Mathematics-II
Basic Electronics Engineering
Engineering Mechanics
Programming in C
Environmental Science
Changing Business with data Insight (Watson Analytics)

**Semester 3**

Subject
Logic Design
Data Structures with C
Programming using Python
Data Base Management System
Discrete Mathematical structures
Fundamentals Of Information Security

### Semester 4

Subject
Computer Based Numerical And Statistical Technique
Finite Automata and Formal Languages
Software Engineering
Computer Organisation
Java Programing Language
Cloud Application Development

### Semester 5

Subject
Hadoop Fundamentals
Operating Systems
Virtualization & Cloud Computing
Design and Analysis of Algorithm
Application Security Engineer
Scala programming for Data Science

### Semester 6

Subject
Compiler Design
Micro Processor
Computer Networks-I
Full Stack Development
DevOps On Cloud
Security Intelligence
Project GRM

### Semester 7

Subject
Block Chain
Computer Networks-II
Advanced Computer Architecture
Elective-1
Industry Session- Information Security

### Semester 8

Subject
Distributed System
Business Intelligence
Elective-II
Project Work